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Amendment to the Claims

This Listing of Claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

Claim 1 -12 (Cancelled)

Claim 13 (Currently Amended): A catalyst composition consisting of:

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- (a) a support;
 - (b) rhodium component;
 - (c) an indium component; and optionally
- (d) a third metal component wherein the metal in said third metal component is selected from the group consisting of iron, cobalt, and ruthenium,

wherein said first rhodium and second metal indium components and said third metal component, if present, are predominantly contained in an outer surface layer of the support having a depth of not more than 300 microns.

Claim 14 -15 (Cancelled)

Claim 16 (Original): The catalyst composition of claim 13 wherein the depth of said outer surface layer of the support is not more than 100 microns.

Claim 17 (Cancelled)

Claim 18 (Previously Presented): The catalyst composition of claim 13, wherein rhodium is present in the amount of from about 0.01% to about 10% by weight of the total catalyst composition including the support.

Claim 19 (Previously Presented): The catalyst composition of claim 13, wherein rhodium is present in the amount of from about 0.04% to about 5% by weight of the total catalyst composition including the support.

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Claim 20 (Previously Presented): The catalyst composition of claim 13, wherein indium is present in the amount of from about 0.01 wt% to about 30 wt% by weight of the total catalyst composition including the support.

Claim 21 (Previously Presented): The catalyst composition of claim 13, wherein indium is present in the amount of from about 0.04 wt% to about 20 wt% by weight of the total catalyst composition including the support.

Claim 22-24 (Cancelled)

Claim 25 (Previously Presented): The catalyst composition of claim 13, wherein rhodium is present in the amount of from about 0.04% to about 10% by weight of the total catalyst composition including the support.

Claim 26 (Previously Presented): The catalyst composition of claim 13, wherein the metal in said third metal component is present in the amount of from about 0.01% to about 50% by weight of the total catalyst composition including the support.

Claim 27 (Previously Presented): The catalyst composition of claim 13, wherein the metal in said third metal component is present in the amount of from about 0.05% to about 30% by weight of the total catalyst composition including the support.

Claim 28 (Cancelled)

Claim 29 (Cancelled)

Claim 30 (Previously Presented): The catalyst composition of claim 13 wherein the metal in said third metal component is iron present in the amount of from about 0.05% to about 30% by weight of the total catalyst composition including the support.

Claim 31 (Previously Presented): The catalyst composition of claim 13 wherein the metal in said third metal component is iron present in the amount of from about 0.1% to about 20% by weight of the total catalyst composition including the support.

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Claim 32 (Previously Presented): The catalyst composition of claim 13 wherein the metal in said third metal component is cobalt present in the amount of from about 0.05% to about 30% by weight of the total catalyst composition including the support.

Claim 33 (Previously Presented): The catalyst composition of claim 13 wherein the metal in said third metal component is cobalt present in the amount of from about 0.1% to about 25% by weight of the total catalyst composition including the support.

Claim 34 (Previously Presented): The catalyst composition of claim 13 wherein the metal in said third metal component is ruthenium present in the amount of from about 0.05% to about 10% by weight of the total catalyst composition including the support.

Claim 35 (Previously Presented): The catalyst composition of claim 13 wherein the metal in said third metal component is ruthenium present in the amount of from about 0.1% to about 5% by weight of the total catalyst composition including the support.

Claim 36 (Currently Amended): A method of making a catalyst composition according to claim 13, the method comprising:

- (a) applying a rhodium compound to a surface layer of a support having a depth of not more than 300 microns;
- (b) applying an indium compound to a surface layer of the support having a depth of not more than 300 microns; and optionally
- (c) applying a compound of a third metal selected from the group consisting of iron, cobalt, and ruthenium to a surface layer of the support having a depth of not more than 300 microns.

Claim 37 (Previously Presented): The method of claim 36 wherein said third metal compound is applied to the support before either the rhodium compound or the indium compound.

Claim 38 (Previously Presented): The method of claim 36 wherein the indium compound is applied to the support either concurrently with or before the rhodium compound.

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Claim 39 (Original): The method of claim 36 wherein at least one of (a), (b) and (c) is effected by an impregnation, precipitation, slurry mixing or coating step.

Claim 40-43 (Cancelled)

Claim 44 (Original): The method of claim 36 and, after (a) and/or (b) and/or (c), calcining the support at a temperature of about 100°C to about 600°C.

Claim 45 (Original): The method of claim 36 and, after (a), (b) and (c), treating the calcined support in a reducing atmosphere at a temperature in excess of 200°C.

Claim 46 (Withdrawn): A process for selectively removing alkynes or diolefins from a feedstock also containing olefins, the process comprising contacting the feedstock with hydrogen in the presence of a catalyst composition made by the method of claim 36.

Claim 47 (Withdrawn): A process for selectively removing alkynes or diolefins from a feedstock also containing olefins, the process comprising contacting the feedstock with hydrogen in the presence of a catalyst composition as claimed in claim 1.

Claim 48 (Withdrawn): The process of claim 47 wherein the alkynes or diolefins have 2 to 4 carbon atoms and the feedstock also contains C_2 to C_4 olefins.

Claim 49 (Withdrawn): The process of claim 47 wherein said contacting is conducted at a temperature of from about 20°C to about 150°C, a pressure of from about 690 kPa to 4100 kPa, and a molar ratio of hydrogen to alkynes and diolefins of from about 1 to about 1000.

Claim 50 (Withdrawn): The process of claim 47 wherein said contacting is conducted at a temperature of from about 30°C to about 100°C, a pressure of from about 1400 kPa to 3400 kPa, and a molar ratio of hydrogen to alkynes and diolefins of from about 1.1 to about 800.

Claim 51 (Cancelled)

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SUPPORT FOR THE AMENDMENT

Claim 13 now provides for a catalyst consisting of the two embodiments set forth in the specification, e.g., paragraphs [0016] and [0019]. That the (optional) third metal component may have a metal selected from iron, cobalt, and ruthenium finds support in paragraph [0039] and original Claim 29. Note that the definition of "component" includes the elemental metal and/or a compound of said metal, as set forth in paragraphs [0031] and [0043]. The optional components are now also recited to be predominantly in the outer surface layer. The amendments are believed to be strictly editorial in nature and/or to conform to the new language in Claim 13 concerning "consisting of".

No new matter is presented.